

## IN THE CLAIMS

1. (Previously presented) A device with an interlock apparatus for supplying gas to a semiconductor manufacturing device, the device comprising:

at least one solenoid valve configured to control the supply of a gas from a gas source to the semiconductor manufacturing device by open/shut operations;

a main controller configured to output a control signal for the semiconductor manufacturing equipment and a driver signal;

a driver configured to apply a driving voltage to the at least one solenoid valve in response to the driver signal from the main controller; and

an interlocker configured to sense the open/shut state of the at least one solenoid valve by sampling the driving voltage and comparing it to a reference voltage, the interlocker further configured to transmit an interlock signal to the main controller.

2. (Original) The device of claim 1, wherein the interlocker comprises:

a comparator configured to compare the driving voltage of the at least one solenoid valve with a reference voltage value, and configured to transmit a result of the comparison to the main controller.

3. (Original) The device of claim 2, further comprising:

a display configured to display an abnormal state indicator when the result indicates an abnormal operation of the at least one solenoid valve.

4. (Original) The device of claim 2, further comprising:

a backflow cutoff valve, coupled between the gas source and the at least one solenoid valve, configured to prevent the gas from flowing backward.

5-6. (Cancelled)

7. (Previously presented) A device with an interlock apparatus for supplying gas to a semiconductor manufacturing device, the device comprising:

at least one solenoid valve configured to control the supply of a gas from a gas source to the semiconductor manufacturing device by open/shut operations;

a main controller configured to output a control signal for the semiconductor manufacturing equipment and a driver signal;

a driver configured to apply a driving voltage to the at least one solenoid valve in response to the driver signal from the main controller;

an interlocker configured to compare the driving voltage of the at least one solenoid valve with a reference voltage value, and configured to transmit a result of the comparison to the main controller; and

a backflow cutoff valve that is coupled between the gas source and the at least one solenoid valve, the backflow cutoff valve configured to prevent the gas from flowing backward.

8. (Previously presented) The device of claim 7, further comprising a display configured to display an abnormal state indicator when the result indicates an abnormal operation of the at least one solenoid valve.